

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-32

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

DETROIT DIESEL CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Detroit Diesel Corporation 1993 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
PDD12.7FZDX	12.7 775	Powertrain Control Module Charge Air Cooler Turbocharger

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake-horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The following are the certification emission values for this engine family in grams per brake-horsepower-hour:

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
PDD12.7FZDX	0.1	1.5	4.7	0.16

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).


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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 8th day of September, 1993.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

Executive Order No.: A-290-32

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer: Detroit Diesel Corporation

Engine Family: PDD12.7FZDX

Liter (CID): 12.7 (775)

Fuel Type: Diesel No. 2

Engine Config.: I-6

Emission Control System and (Special Features): ECM/PCM, CAC, (TC)

ENGINE MODEL (ENG. CODE)	RATED HP AT RPM	FUEL RATE @ RATED HP mm3/STROKE (LBS/HR)	FUEL PUMP & INJECTOR P/N	ECM/PCM P/N	PART. TRAP/ CATALYST P/N
<u>12.7L</u>					
1A	470@2100	220.1 (153.7)	5235575	23513553	
2A	470@1800	245.8 (147.1)	5235575	23513553	
3A	430@2100	200.7 (140.2)	5235575	23513553	
4A	430@1800	224.2 (134.2)	5235575	23513553	
5A	410@1800	213.7 (127.9)	5235575	23513553	
6A	375@1800	195.5 (117.0)	5235575	23513553	
1B	470@2100	220.1 (153.7)	5235575	23513553	
2B	430@2100	200.7 (140.2)	5235575	23513553	
3B	430@1800	224.2 (134.2)	5235575	23513553	
4B	400@2100	186.7 (130.4)	5235575	23513553	
5B	400@1800	208.5 (124.8)	5235575	23513553	
6B	370@2100	172.7 (120.6)	5235575	23513553	
7B	370@1800	192.8 (115.4)	5235575	23513553	
8B	360@1800	187.6 (112.3)	5235575	23513553	

ISSUED: 07-22-93

REV. NO.: